Liquid plastic

"Liquid plastic" generally refers to **synthetic liquid resins** that cure into solid plastic polymers, such as epoxy, polyurethane, and polyester resins. These materials are widely used in a variety of applications, including crafting, industrial repairs, prototyping, and as adhesives or protective coatings.

- Common Types and Uses:
Liquid plastic products are generally categorized by the type of resin they contain, which determines their final properties and ideal use cases.

1. Epoxy Resins:
These are widely used as strong industrial adhesives and for coating or laminating surfaces to provide strength and protection. They have a low viscosity and are excellent for casting transparent objects like jewelry or encapsulating items in a clear finish. Brands include EcoPoxy Liquid Plastic 1:1 for deep pours and encapsulation.
2. Polyurethane (PU) Resins:
These are durable and water-resistant, often used to make flexible foam (for furnishings) and elastomers (like shoe soles). In their liquid form, fast-cast PU resins like Polycraft SG2000 Paintable Fast Cast Polyurethane Liquid Plastic Casting Resin are popular for prototyping, model-making (cars, figures), and producing precise technical parts due to their ability to capture fine detail and be easily painted.

3. Polyester Resins:
These clear, viscous liquids are water and weather-resistant once cured, making them suitable for marine applications, swimming pools, and other outdoor uses. They shrink slightly during curing and can have a distinct odor, so good ventilation is important.
4. Liquid Silicone Rubber (LSR):
Highly versatile and heat-resistant, LSR is used for food and medical-grade products, automotive parts, and electronic components. It is also widely used in arts and crafts to create flexible molds for casting other materials like wax, soap, or plaster.
5. Plastisol (Liquid PVC):
This material is heated to create soft, clear plastic, commonly used for making soft fishing lures.
6. Liquid Electrical Tape/Dip:
A polyurethane-based product designed as an elastic coating for waterproofing and insulating electrical components and tools. Brands like Isolera liquid plastic are used for permanent waterproofing on various surfaces.

More:

- Silicone Mold Technology:

https://archive.org/details/silicone-mold-technology

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https://archive.org/details/@wazefapress

Resources:

https://sthplastics.com/liquid-plastic-resin-know-the-basics/

https://en.wikipedia.org/wiki/Resin_casting

https://www.amino.com.br/en/blog/liquid-plastic/

https://www.dipseal.com/plastic-dipped-parts-tools-and-corner/the-many-benefits-of-using-liquid-plastic-dip-why-its-essential-for-a-wide-range-of-applications

https://polyestershoppen.com/info/welke-giethars-heb-ik-nodig

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https://andersonvreeland.com/proper-handling-liquid-photopolymer-resins/

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